

USSR / Plant Physiology. Mineral Nutrition.

I

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5993.

Abstract: accelerated by $MnSO_4$ and inhibited by $CuSO_4$. Using the $MnSO_4$ modified treatment, the corn cobs were more numerous both in quantity and total weight. The greatest content of vitamin C and carotene in leaves was also observed in plants using this very same modification. The treatment of seeds with microquantities of elements increased the carbohydrate content in leaves and stems of plants. Treatment with $MnSO_4$ effected the maximum increment of the green-mass crop (as compared with water soaking, an increment of 95.26%). -- Ye. A. Yablonskiy.

Card 2/2

BAYKOVA, V.M., uchitel'nitsa

Experiment in conducting extracurricular work. Khim.v shkole
14 no.4:53-56 J1-Ag '59. (MIRA 12:11)

1. Srednyaya shkola No.24 g.Petrozavodsk.
(Chemistry--Study and teaching)

BAYKOVA, V.M., uchitel'nitsa

Relationship between teaching and industry. Khim. v shkole 15
no.6:80 H-D '60. (MIRA 13:11)

1. Srednyaya shkola No.24, Petrosavodsk.
(Chemistry, Technical--Study and teaching)

SIDORENKO, Vladislav Vladislavovich; ~~MAYKOVA~~, Valentina
Sergeyevna; STEPANOV, Igor' Vasil'yevich; KUZNETSOV, S.S.,
doktor geol.-miner. nauk, prof., otv. red.

[Volcanic-siliceous group of the formations of the Sakmara
zone in the western slope of the Southern Urals] Vulkanogenno-
kremnistaia gruppа formatsii Sakmarskoi zony na zapadnom sklo-
ne IUzhnogo Urala. Moskva, Nauka, 1964. 66 p. (MIRA 17:10)

BAYKOVA, V.I.

Effect of therapeutic doses of radioactive iodine on the function of the kidney. Med. rad. 9 no.2:56-64 F '64.

(MIRA 17:9)

1. Radiokhirurgicheskoye otdeleniye (ispolnyayushchiy obyazannosti rukovoditelya A.I. Strashinin) Tsentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta (dir. Ye.I. Vorob'yev) Ministerstva zdravookhraneniya SSSR.

BAYKOVA, Vera Vasil'yevna, nagrazhdena ordenom Trudovogo Krasnogo
Znameni; POLYAKOVA, V., red.; PAVLOVA, S., tekhn. red.

[Irrigation with waste water] Stochnye vody - na polia.
Moskva, Mosk. rabochii, 1961. 31 p. (MIRA 15:3)

1. Glavnyy agronom sovkhoza "Noginskiy", Moskovskoy oblasti
(for Baykova).

(Noginsk District—Sewage irrigation)

BAYKOVA, Ye.V.

Use of synthetic materials instead of bristles in the manufacture of brushes. Kozh. obuv. prom. 5 no.7:39 J1 '63.

(MIRA 16:8)

(Brooms and brushes) (Nylon)

BAYKOVA, Z. Z.

"Segmentary Osteotomy of the Femur According to the Method of Bogoraz."
Cand Med Sci, Second Moscow State Medical Inst imeni I. V. Stalin, 17 Nov 54.
(VM, 9 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

BAYKOVA, Z.Z.

~~SECRET~~
Replantation of extremities on the neurovascular bundle
according to N.A.Bogoraz's method. Vest.khir. 74 no.1:32-36
Ja-F '54. (MLRA 7:2)

1. Iz fakul'tetskoy khirurgicheskoy kliniki. (savednyushchiy -
professor B.V.Petrovskiy) 2-go Moskovskogo meditsinskogo in-
stituta im. I.V.Stalina.
(Surgery, Plastic) (Extremities (Anatomy)--Surgery)

BAYKOVA, Z.Z.

Compound reconstructive operations in deformed and contracted lower
extremities. Vest. khir. 76 no.11:68-74 '55. (MLRA 9:4)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (dir.-prof. B.V.
Petrovskiy) pediatricheskogo fakul'teta 2-go Moskovskogo meditsinskogo
instituta imeni I.V. Stalina.

(LNG, surg.)

reconstructive in deformities)

(LNG, dis.

deform., surg.)

BAYKOVA, Z.Z., kand.med.nauk

Traction plaster bandage in diaphysial fractures of the humerus.
Sov.med. 23 no.6:111-114 Je '59, (MIRA 12:9)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof.A.A.Busalov)
pediatricheskogo fakul'teta II Moskovskogo meditsinskogo insti-
tuta imeni N.I.Pirogova (dir. - prof.O.V.Kerbikov).
(HUMERUS fract.)
(CASTS, SURGICAL)

BAYKOVA, Z.Z., kand.med.nauk (Moskva V-17, Lavrushinskiy per. d.3, kv.29)

Resection of the acromial end of a dislocated clavicle. Nov. khir.
arkh. no.5:23-~~26~~ 3-0 '60. (MIRA 14:12)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. A.A.Busalov) 2-go
Moskovskogo meditsinskogo instituta.
(CLAVICLE--SURGERY)

BAYKOVA, Z.Z. (Moskva, V. 17, Lavrushinskiy per., d. 3, kv. 29.)

Some complications appearing during commissurotomy. Grud.khir.
no.4:9-15 JI-Ag '62. (MIRA 15:10)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. A.A.Busalov)
pediatricheskogo fakul'teta II Moskovskogo instituta imeni N.I.
Pirogova.

(MITRAL VALVE—SURGERY)

BAYKOVICH, E.M.; TEPLIAKOV, Yu.D., zootekhnik-instruktor

New design of a stand for the fastening and artificial insemination of cows. Zhivotnovodstvo 23 no.8:82-83 Ag '61.

(MIRA 16:2)

1. Zaveduyushchiy Krasnogvardeyskoy stantsiyey iskusstvennogo osemineniya sel'skokhozyaystvennykh zhivotnykh (for Baykovich).
(Artificial insemination—Equipment and supplies)
(Cows)

BAYKOVSKAYA

"The Problem of the Diagnostic Value of a Hemoculture in Brush Typhus
of Vaccinated Patients," Klin. Med., 26, No.4, 1948

BAYKOVSKAYA, T.N.

Paleocene flora of the Zeya-Bureya Plain. Vop.paleont. 1:348-381
'50. (MLRA 9:5)

(Zeya-Bureya Plain--Paleobotany)

Dissertation: "Upper Cretaceous Flora of Northern Asia." Dr. Biel
Sci. Inst of Botany imeni V. L. Komarov, Acad Sci USSR, Moscow, Oct-Dec
53. (Vestnik Akademii Nauk, Moscow, Jun 54) (Source gives brief summary
of work)

SO: SUM 318, 23 Dec 1954

BAYKOVSKAYA, T.N.

Paleocene flora of the Southern Urals (Steinhauera subglobosa
Presl). Ezhegod.Vses.paleont.ob-va 14:257-263 '53. (MIRA 8:3)
(Ural Mountains--Paleobotany)

BAYKOVSKAYA, T.N.

Neogene flora in Transcarpathian Province of the Ukrainian S.S.R.
Trudy L'viv.geol.ob-va no.2:211-215 '53. (MLRA 10:4)

1. Leningrad. Botanicheskiy institut AN SSSR imeni akademika V.I.
Komarova.

(Transcarpathia--Paleobotany, Stratigraphic)

BAYKOVSKAYA, T. N.

BAYKOVSKAYA, T.N.; GRUBOV, V.I.

P.A. Mchedlishvili's criticism of A.N. Krishtofovich. Bot. zhur. 39
no.3:459-464 My-Je '54. (MLRA 7:7)

1. Botanicheskiy institut im. V.L. Komarova, Akademii nauk SSSR,
Leningrad.

(Paleontology) (Mchedlishvili, P.A.) (Krishtofovich, A.N.)

~~SECRET~~
KRISHTOFOVICH, A.N. [deceased]; PALABIN, I.V. [deceased]; SHAPARENKO,
K.K. [deceased]; YARMOLENKO, A.V. [deceased]; RAYKOVSKAYA, T.N.;
GRUBOV, V.I.; IL'INSKAYA, I.A.; SHISHKIN, B.K., ~~redaktor~~;
SHCHEBINA, T.S., redaktor; KIRMARSKAYA, A.A., tekhnicheskij
redaktor.

[Oligocene flora of Mount Ashutas in Kazakhstan] Oligotsenovaia flora
gory Ashutas v Kazakhstane. Moskva, Izd-vo Akademii nauk SSSR, 1956,
178 p. (Akademiia nauk SSSR. Botanicheskii institut. Trudy, Ser. 8,
no.1. Paleobotanika). (MLRA 9:8)

1. Chlen-korrespondent AN SSSR (for Krishtofovich, Shishkin)
(Kazakhstan--Paleobotany)

BAYKOVSKAYA, T.M.

Upper Cretaceous flora of Central Asia. Trudy Bot. inst. Ser. 8 no.2:
47-181 '56. (MIRA 10:4)

(Soviet Central Asia--Paleobotany)

BAYKOVSKAYA, T.N.

"Stratigraphy and fossil fauna of Cretaceous deposits in Western
Kazakhstan (Regional stratigraphy of the U.S.S.R., no.1) *Biul.MOIP.*
Otd.geol. 31 no.1:119-120 Ja-F '56. (MIRA 9:7)
(Kazakhstan--Geology, Stratigraphic)(Kazakhstan--Paleontology)
(Vakhrancev, V.A.)

BAYKOVSKAYA, T.N.

Discovery of Tertiary plants in Bulgaria and Rumania. Bot.zhur.
41 no.3:403-407 Mr '56. (MLRA 9:8)

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR,
Leningrad.
(Bulgaria--Paleobotany) (Rumania--Paleobotany)

БАЙКОВСКАЯ, I. N.

ANIKEYEV, N.P., glavnyy red.; BISKE, S.F., red.; BOBYLEVSKIY, V.I., red.;
 VAS'KOVSKIY, A.P., red.; VERESHCHAGIN, V.N., red.; DRABKIN, I.Ye.,
 red.; YEVANGULOV, B.B., red.; YEFIMOVA, A.F., red.; ZIMKIN, A.V.,
 red.; LARIN, N.I., red.; LIKHAREV, B.K., red.; MENNER, V.V., red.;
 MIKHAYLOV, A.F., red.; NIKOLAYEV, A.A., red.; POPOV, G.G., red.;
 POPOV, Yu.N., red.; SAKS, V.N., red.; SEMEYKIN, A.I., red.;
 SIMAKOV, A.S., red.; TITOV, V.A., red.; SHILO, N.A., red.; EL'YANOV,
 M.D., red.; YAKUSHEV, I.R., red.; V redaktirovani priimani uchast-
 tiye: ANDREYEVA, O.N., red.; BAYKOVSKAYA, T.N., red.; BOLKHOVITINA,
 N.A., red.; BORSUK, M.O., red.; VASIL'YEV, I.V., red.; VASILEVSKAYA,
 N.D., red.; VOYEVODOVA, Ye.M., red.; YEVSEYEV, K.P., red.; KIPARI-
 SOVA, L.D., red.; KRASHNYI, L.I., red.; KRISHTOPOVICH, L.V., red.;
 KULIKOV, M.V., red.; LIBROVICH, L.S., red.; MARKOV, F.G., red.;
 MODZALEVSKAYA, Ye.A., red.; NIKIFOROVA, O.I., red.; OBUT, A.M.,
 red.; PCHELINTSEVA, G.T., red.; RZHONSNITSKAYA, M.A., red.; SEDOVA,
 M.A., red.; STEPANOV, D.L., red.; TIMOFEYEV, B.V., red.; KHUDOLEY,
 K.M., red.; CHEMEKOV, Yu.F., red.; CHERNYSHEVA, N.Ye., red.;
 DERZHAVINA, N.G., red. izd-va; GUROVA, O.A., tekhn. red.

(Continued on next card)

ANIKEYEV, N.P.—(continued) Card 2.

[Decisions of the Interdepartmental Conference on the Unified Stratigraphic Columns of the Northeastern Part of the U.S.S.R.]
Reshenia Meshvedomstvennogo soveshchaniia po razrabotke unifitsirovannykh stratigraficheskikh skhem dlia Severo-Vostoka SSSR, Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1959. 65 p. (MIRA 13:2)

1. Meshvedomstvennoye soveshchaniye po razrabotke unifitsirovannykh stratigraficheskikh skhem dlya Severo-Vostoka SSSR, Magadan, 1957.
(Soviet Far East—Geology, Stratigraphic)

KRISHTOPOVICH, Afrikan Nikolayevich; BAYKOVSKAYA, T.N., doktor biolog.
nauk, otv.red.; BARANOV, P.A., red.; TAKHTADZHIAN, A.L., red.;
ARONS, R.A., tekhn.red.

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akad.nauk
SSSR. Vol.1. [Theoretical works] Teoreticheskie raboty.
1959. 509 p. (MIRA 12:8)

1. Chlen-korrespondent AN SSSR (for Baranov). 2. Chlen-
korrespondent AN Arm.SSR (for Takhtadshyan).
(Paleobotany)

BAYKOVSKAYA, T.N.

Materials on the TSagayanskoye flora of the Zeya-Bureya
Plain. Probl.bot. 4:253-275 '59. (MIRA 13:1)
(Zeya-Bureya Plain--Paleobotany)

KRISHTOPOVICH, Afrikan Nikolayevich; BAYKOVSKAYA, Tat'yana Nikolayevna;
TURUTANOVA-KETOVA, A.I., otv.red.; GOLOVNIN, M.I., red.izd-vo;
ZENDEL', M.Ye., tekhn.red.

[Cretaceous flora of Sakhalin] Melovaia flora Sakhalina. Moskva,
Izd-vo Akad.nauk SSSR, 1960. 122 p. (MIRA 13:7)
(Sakhalin--Paleobotany, Stratigraphic)

KRISHTOFOVICH, Afrikan Nikolayevich; BAYKOVSKAYA, T.N., doktor biolog. nauk, otv. red.; BARANOV, F.A., red.; TAKHTADZHYAN, A.L., red.; VERESHCHAGIN, V.N., kand. geol.-miner. nauk, red.; KRUGLIKOVA, N.A., tekhn. red.

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akad. nauk SSSR. Vol.2. [Works in geology, stratigraphy, and paleobotany; Far East] Geologicheskie, stratigraficheskie i paleobotanicheskie raboty; Dal'nii Vostok. 1962. 532 p. (MIRA 15:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Baranov).
2. Chlen-korrespondent AN Armyanskoy SSR (for Takhtadshyan).
(Soviet Far East—Geology)
(Soviet Far East—Paleobotany)

DOROFYEV, Pavel Ivanovich; BAYKOVSKAYA, T.N., otv. red.; VIKHREV,
S.D., red. izd-va; BOCHEVER, V.T., tekhn. red.

[Tertiary floras of Western Siberia] Tretichnye flory
Zapadnoi Sibiri. Moskva, Izd-vo Akad. nauk SSSR, 1963.
344 p. (MIRA 16:6)

(Siberia, Western—Paleobotany)

KHRISHTOFOVICH, Afrikan Nikolayevich, 1885-1953; BAYKOVSKAYA, T.N.,
otv. red.

[Selected works] Izbrannye raboty. Moskva, Izd-vo
AN SSSR, 1959-62. Vol.1. [Theoretical works] Teoreticheskie
raboty. Vol.2. [Geologic, stratigraphic, and paleobotanic
works] Geologicheskie, stratigraficheskie i paleobotaniche-
skie raboty. (MIRA 16:9)

(Paleobotany)

KRISHTOFOVICH, Afrikan Nikolayevich; BAYKOVSKAYA, Tat'yana
Nikolayevna

[Sarmatian flora of the Krynka Valley] Sarmatskaya flora
Krynki. Moskva, Nauka, 1965. 133 p. (MIRA 18:3)

BAYKOVSKAYA, T.N.

Upper Cretaceous plants of Transylvania (Rumania). Bot. zhur. 50
no.3:371-374 Mr'65. (MIRA 18:5)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

L 8262-66 EWT(d)/EPF(n)-2/EWP(v)/EWP(k)/EWP(h)/EWP(l) LJP(c) WH/BC
ACC NR: AP5023113 SOURCE CODE: UR/0103/65/026/009/1533/1545

AUTHOR: Baykovskiy, V. M. (Moscow)

ORG: none

TITLE: Using the harmonic-balance method for studying unitary-code automatic systems

SOURCE: Avtomatika i telemekhanika, v. 26, no. 9, 1965, 1533-1545

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory

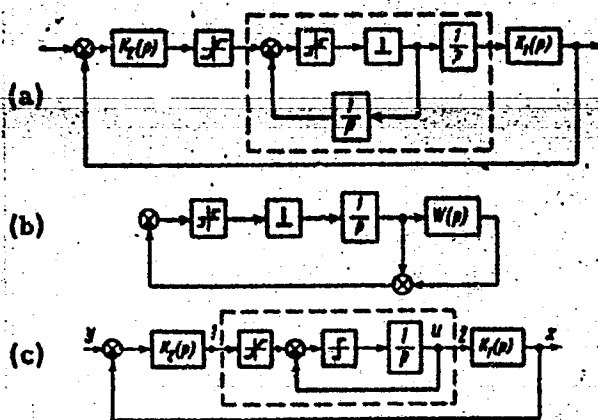
ABSTRACT: A unitary-code (incremental) system containing one channel with a difference-discrete modulation in the system direct branch and containing two non-linear units is theoretically considered. The first nonlinear unit represents a "ta" constraint on the control variable, while the second having a dead-zone relay characteristic belongs with the above modulation channel (enclosed with a dotted line in fig. a). The relations between T_s , Δ , a and the time constant of the linear unit are explored which make the control system stable and which ensure the proper system response to harmonic and step input variables; here, T_s is the repetition period of the sampling unit, Δ is the quantization interval. The linear

Card 1/2

UDC: 62-503.55

L 8262-66

ACC NR: AP5023113



unit of the system having the transfer function $W(p) = K_2(p) K_1(p)$ is assumed to act as a filter which ensures a harmonic signal at the input of the first nonlinear unit. Fig. b represents the system without the above constraint. Fig. c shows a continuous system equivalent to the initial sampled-data system. The equivalent complex transfer factor of the nonlinear unit is found and the cycling parameters are determined; conditions of system stability are

formulated. The system response to a step perturbation was experimentally checked on an analog computer. Orig. art. has: 9 figures, 35 formulas, and 2 tables.

SUB CODE: 13, 09 / SUBM DATE: 28Aug64 / ORIG REF: 011 / OTH REF: 001

Card 2/2

MARKUS, John; ALTAYEV, V.Ya., inzh.[translator]; BAYKOVSKIY, V.Ya., inzh.
[translator]; ZAYMOVSKIY, Ye.A., inzh.[translator]; KOROVYAKOV,
D.B., inzh.[translator]; MOKEYEV, O.K., inzh.[translator];
YAROSHEVSKIY, Yu.A., inzh.[translator]; IVANOV, V.A., kand. tekhn.
nauk, red.; SOKOLOV, A.A., kand. tekhn. nauk, red.; BASKAKOVA, L.B.,
red.; DZHATIYEVA, F.Kh., tekhn. red.

[Handbook of electronic control circuits] Skhemy elektronnoi avto-
matiki. Pod red. i s predisl. V.A.Ivanova i A.A.Sokolova. Mo-
skva, Izd-vo inostr. lit-ry, 1962. 342 p. Translation into English.
(Electronic control) (Electronic circuits) (MIRA 15:12)
(Automatic control)

BAYKOWSKA-BOGDANSKA, B.; KOZIEL, I.E.

Variations in results of laboratory studies during the course of lupus erythematosus with special reference to the blood picture and myelogram. Przegl. dermat. 48 no.8/10:149-157 '61.

1. Z Kliniki Dermatologicznej A.M. w Lodzi Kierownik: Prof. dr J. Lutowiecki.

(LUPUS ERYTHEMATOSUS blood)
(BLOOD COAGULATION) (BONE MARROW)

BAYKULOV, A.T.

Semiautomatic and automatic welding of combine assemblies in carbon dioxide and under flux. Avtom.svar. 17 no.1:66-70 Ja '64.
(MIRA 17:3)

1. Khersonskiy kombaynovyy zavod imeni Petrovskogo.

RAYKULOV, A.T.

Spot welding of combine units with the help of a spot welding
gun. Avtom. svar. 17 no.6:91-92 Je '64 (MIRA 18:1)

BAYKULOV, A.T.

Welding combine pulleys in carbon dioxide. Avtom. svar. 17 no.10:
64-66 0 '64 (MIRA 18:1)

1. Khersonskiy kobaynovyy zavod.

BAYKULOV, A.T.

Reducing the consumption of carbon dioxide in the welding of
combine units. Avtom. svar. 18 no.4:53 Ap '65.

(MIRA 18:6)

1. Khersonskiy kombaynovyy zavod imeni Petrovskogo.

BAYKUZIYEV, K.

Some methods of solving Cauchy's problem in the mathematical theory of elasticity. Izv. AN Uz.SSR. Ser. fiz.-mat. nauk 3:3-12 '61.
(MIRA 14:8)

1. Institut matematiki imeni V.I. Romanovskogo AN UzSSR.
(Elasticity) (Differential equations, Partial)

16 3500

37603

S/044/62/000/004/042/099
C111/C333

AUTHOR: Baykuziyev, K.

TITLE: On the uniqueness of the solution of certain non-linear equations of parabolic type

PERIODICAL: Referativnyy zhurnal, Matematika, no. 4, 1962, 49, abstract 4B228. ("Dokl. AN Uz SSR", 1961, no. 10, 7-9)

TEXT: The author considers the equation

$$\frac{\partial u}{\partial t} - \frac{\partial}{\partial x} \left(p(x) \frac{\partial u}{\partial x} \right) = f(x, t, u, u)$$

with the conditions: $u(0, t) = u(1, t) = 0$, $u(x, t+1) = u(x, t)$. The following theorem is proved:

If $p(x) \geq 0$, $\frac{\partial f}{\partial u} \in L$ and $\frac{\partial f}{\partial u}$ is bounded, then the solution of the formulated problem is unique in the domain D.

[Abstracter's note: Complete translation.]

Card 1/1

BAYKUZIYEV, K.

Mixed problem for a hyperbolic equation degenerating at the boundary. Izv. AN Uz. SSSR. Ser. fiz. mat.nauk 6 no.2: 83-85 '62. (MIRA 15:9)

1. Ferganskiy gosudarstvennyy pedagogicheskiy institut imeni Ulugbeka.

(Differential equations)

L 9028-65

ACCESSION NR: AB4043042

Using the method evolved by O. A. Ladyzhenskaya, the author proves the uniqueness of the general solution from W_2^1 for such a system, proposing only a single differentiation of coefficients. Under these very assumptions the author also shows the existence of a general solution from W_2^1 for the problem of

L 19419-63 EWT(d)/FCC(w)/BDS AFPTC/IJP(c)

ACCESSION NR: AR3005369

S/0044/63/000/006/B051/B051

SOURCE: RZh. Matematika, Abs. 6B244

AUTHOR: Karimov, D. Kh.; Baykuziyev, K.

TITLE: Mixed problem for a single hyperbolic equation which degenerates on the boundary of the region

CITED SOURCE: Nauchn. tr. Tashkentsk. un-t, vyyp. 208, 1962, 90-97

TOPIC TAGS: Partial differential equation, hyperbolic equation, mixed problem, Fourier-Bessel series, Fourier-Bessel coefficient, boundary condition

TRANSLATION: The problem consists in finding a solution for the equation

$$\frac{\partial^2 u}{\partial t^2} - \frac{\partial}{\partial x} \left(x^2 \frac{\partial u}{\partial x} \right) \quad (1)$$

satisfying the initial conditions

$$u|_{t=0} = \varphi(x), \quad \frac{\partial u}{\partial t} \Big|_{t=0} = \psi(x) \quad (2)$$

and one of the boundary conditions

Card 1/3

L 19419-63

ACCESSION NR: AR3005369

$$u(0, t) = 0, u(a, t) = 0 \text{ for } a < 1, \quad (3)$$

$$|u(0, t)| < \infty, u(a, t) = 0 \text{ for } 1 < a < 2, \quad (4)$$

The solution to equation (1) is sought in the form $u(x, t) = X(x) \cdot T(t)$. The function $X(x)$ is expressed in terms of Bessel functions, and the characteristic functions $X_n(x)$ are determined. The solution of equation (1) satisfying the boundary condition (3) or (4) has the form:

$$u(x, t) = \sum_{n=1}^{\infty} (A_n \cos \sqrt{\nu_n} t + B_n \sin \sqrt{\nu_n} t) X_n(x),$$

where ν_n is the n -th root of the equation $J_p(z) = 0$. The coefficients A_n and B_n are determined from initial conditions as the coefficients of the Fourier-Bessel series of the given functions. Evaluations of Fourier-Bessel coefficients are given for functions differentiated a sufficient number of times and satisfying certain conditions (limitation or limited variation). With fulfillment of all these conditions there follows the existence of the posed problem. The same problem is posed for the equation

$$\frac{\partial^2 u}{\partial t^2} - \frac{\partial}{\partial x} \left(x^2 \frac{\partial u}{\partial x} \right) = f(x, t) \quad (1)$$

Card 2/3

L 19419-63

ACCESSION NR: AR3005369

with zero initial conditions (2). The existence of a solution in the form of some series is proved if the function $f(x, t)$ is expanded in a Fourier series with respect to the characteristic functions, $\sqrt{x}(x, t)$ is a function with finite variation with respect to both variables, $f(x, 0) = 0$. $\frac{\partial f}{\partial t}$ is a function with finite variation with respect to t . L. Vostrova.

DATE ACQ: 24Jul63

SUB CODE: MM

ENCL: 00

Card 3/3

ACCESSION NR: AP500330R

consists of solving the equation

and use it to solve the problem

The solution is sought in the form

INSTITUTION: Foreign Military Institute, Maryland State
Institute

SUBMITTED: 1964

NP REF SOV: 001

Card 3/3

Name: BAYKUZOV, N.A.
Title: engineer

Author of book, "Radio Amateur Radio-Telephone." This book covers the following topics: history of radio-telephone development, radio-telephone transmitters, absorption modulations, transmitter adjustments, telephone-telegraph stations, etc. This work is designed for qualified radio amateurs.

REF: R.F. #13, p.63, 1938

BAYKUZOV N.

PA 10791

USSR/Radio, Amateur
Radio - Development

Apr 1947

"Broad Development of Amateur Short-wave Radio," N.
Baykuzov, General-major of Engr-Avn Service, 2 pp

"Za Oboronu" Vol XXIII, No 6

Short general history of development of radio in
USSR. One of most important duties of Osoaviakhim
is mass development of amateur radio.

10791

PA 78102

BAYKUZOV, N. A.

Feb 1948

USSR/Radio Navigation
Navigation, Aerial

"Radio Navigation," N. A. Baykuzov, 7 pp

"Radio" No 2

Stresses the importance of radio navigation in present-day aviation. Discusses land-based RDF, its operation and function, the RPK (radio semicompass) which is plane-based RDF using a medium wave band and equipped with turnstile antenna, and the radio compass.

78783

PA 78T96

BAYKUZOV, N. A.

USSR/Radio Beacons
Radio - Homing Devices

Mar 1948

"Radio Navigation," N. A. Baykuzov, 3 pp

"Radio" No 3

Concludes article begun in "Radio" No 2, 1948. Describes operation of radio beacons, homing stations (equipped with medium-wave transmitters with non-directional antennas)..

78T96

BAYKUZOV N. A.

PA 44/49T102

USSR/Radio, Amateur
Electronic Equipment

May 49

"Report of Radio Amateurs Building Electronic
Equipment," N. A. Baykuzov, 4 pp

"Radio" No 5

Number of radios exhibited operate on both
battery and AC supply to meet needs of rural
localities where power stations do not operate
24 hours a day. Also included testing equip-
ment (signal generators, oscilloscopes, etc.)
and exhibits such as a hearing aid and an
instrument for detecting useful minerals.

44/49T102

BAYKUZOV, N.

PA 150T104

USSR/Radio - Recorders, Tape
Recorders, Magnetic

Oct 49

"An Amateur Magnetophone (Magnetic Voice Recorder),"
N. Baykuzov, 3 pp

"Radio" No 10

Describes structural features of a tape recorder
shown at the Eighth All-Union Corr Radio Exhibit:
motor, brackets, leading roller, rewind roller,
inertia roller, guides for tape, etc.

150T104

BAYKUZOV, N.

36175 Lyubitel'skiy magnitofon. (Is eksponatov 8-y zaachnoy radiovystavki). Radio, 1949, No. 11, S. 50-52, 57.--OKoncheniye, Nachalo: No. 10.

SO: Letopis' Zhrunal'nykh Statey, No. 49, 1949

BAYKUZOV, N.

USSR/Radio - Magnetic Recorders

Dec 51

"A Stationary Amateur Magnetic Recorder," N.
Baykuzov

"Radio" No 12, pp 53-57

Conclusion of a description of magnetic recorder
published in "Radio" No 5 and 6, 1951. Current
article is concerned with the phys construction
of the recorder.

208T101

BAYKUZOV, NIKOLAI AFANAS'YEVICH

"Nikolay Afanas'yevich Baykuzov," H. Tsurtsev, et al.
1901-1952

Radio, no. 12, p. 58, 1952

At the time of his death, Baykuzov was an editor of the periodical "Radio," president of the Council of the Central Dossat Club, and a major general in the engineering-technical service. He was a pioneer in radio communications for civil aviation and participated in Arctic expeditions in 1927

BAYL', L. V. Cand Med Sci -- (diss) "Clinical ~~Aspects~~ of
~~the~~ Salmonellosis Caused by ~~BACILLUS BRESLAU~~ Bacillus breslau
in ^{Young} ~~Small~~ Children." ~~XXXX~~ Franze, 1957. 11 pp 20 cm. (Kirgiz
State Medical Inst), 120 copies (KL, 17-57, 99)

- 62 -

BAYL', S. S. (Prof.)

"Effect of Caries on the Radicular Pulp," Stomatologiya, No. 3, 1949.

Leningrad Stomatological Institute.

BAYLAROVA, M.K.; TUREMULATOV, Zh.S.

Geology of the territory in the southeast of the Uzen' deposit
according to seismic data. Izv. AN Kazakh. SSR. Ser. geol. 21
no.4:66-68 J1-Ag '64. (MIRA 17:11)

1. Institut geologicheskikh nauk AN KazSSR imeni Satpayeva, Alma-Ata.

BAYLERT, G. I., *Cand Bio Sci -- "Physical properties of the
basic soils of ^{the} Amu-Dar'ya lowlands." Tashkent, 1961.
^
(Tashkent State U im V. I. Lenin) (KL, 8-61, 236)

- 138 -

BAYLIN. A. Yu.

Cand Tech Sci - (diss) "Use of ion-exchange resins in the recovery of gold from ores." Moscow, 1961. 17 pp; (Academy of Sciences USSR, Inst of Mining Practice imeni A. A. Skopzhinskiy); number of copies not given; price not given; (KL, 6-61 sup, 213)

177 E
TELEGIN, Mikhail Yakovlevich; BAYLOBZHESKII, Grigoriy Valerianovich;
KORSUNSKIY, Mark Borisovich; ~~MAKAROV, A.P.~~; Redaktor; MAL'KOVA,
N.V., tekhnicheskii redaktor.

[Maintenance and repair of automobile roads] Soderzhanie i remont
avtomobil'nykh doreg. Moskva, Nauchno-tekhnicheskoe izd-vo avto-
transpo. lit-ry, 1955 185 p. (MLRA 8:12)
(Roads--Maintenance and repair)

1. BAYLOK, G. I.
2. USSR (600)
4. Phototelegraphy
7. Telephotograph is the predecessor of television. Priroda 42, No. 5, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

MICROBIOLOGY

BULGARIA

BAYL'OV, Dr. D., Veterinary Institute of Infectious and Parasitic Diseases, Sofia

''Properties of Cl. botulinum Type E in Canned Meat and Fish''

Sofia, Veterinarna Sbirka, Vol 63, No 3, 1966, pp 17-19

Abstract: Experiments in which canned meat, meat combined with vegetables, and fish were infected with Cl. botulinum, Type E , indicated that the microorganism multiplied both at 37 and 15-18°. Swelling of the canned products that developed on infection was not accompanied by the pronounced discoloration and disagreeable odor that are typical for products infected with Cl. botulinum, Types A and B . The appearance of the infected products often did not differ from that of canned foods that had undergone physical swelling, i. e., swelling not produced by a microorganism . Furthermore, the presence of toxin in

1/2

[illegible]

BAYMAKANOVA, S.Sh., aspirant

The organ of hearing in hypertension. Zdrav.Kazakh. 17
no.1:19-22 '57. (MIRA 12:6)

1. Iz kliniki bolezney ukha, gorla i nosa (zav. - prof.
B.V.Yelantsev) Kazakhskogo gosudarstvennogo meditsinskogo
instituta im. V.M.Molotova.
(HYPERTENSION) (HEARING)

BAYMAKANOVA, S.Sh.

Condition of the hearing organ and of the vestibular apparatus
in hypertension. Zdrav.Kazakh. 17 no.12:10-16 '57.

(MIRA 12:6)

1. Iz kliniki bolezney ukha, gorla i nosa (zav. - prof. B.V.
Yelantsev) Kazakhskogo gosudarstvennogo meditsinskogo insti-
tuta.

(HEARING)

(HYPERTENSION)

BAYMAKANOVA, S.Sh., Cand Med Sci -- (diss) "The state
of the auditory and vestibular analy^{z2}sis in hypert^{ension}." ~~entia~~
Alma-Ata, 1958, 12 pp (Kazakh State Med Inst) 300 copies
(KL, 23-58, 110)

- 119 -

BAYMAKANOVA, S.Sh., kand. med. nauk

Etiopathogenesis and treatment of phlegmonous laryngitis.
Zdrav. Kazakh. 22 no.8:35-39 '62 (MIRA 17:4)

1. Iz kliniki bolezney ukha, gorla i nosa (zav. - dotsent
B.I.Dumayvitser) Semipalatinskogo meditsinskogo instituta.

BAYMAKANOVA, S.Sh.; KOLYCHEV, N.I.

Report on the Conference on Epidemiology and Pathology of
Oropharyngeal Tumors in the Republics of Central Asia and
Kazakhstan. Vop.onk. 11 no.11:113-114 '65.

(MIRA 19:1)

BAYMAKHANOV, K.

Give serious attention to the disinfection program. Zdrav.Kazakh. 16
no.8:3-6 '56. (MLRA 10:1)

1. Nachal'nik otдела dezinfektsii Ministerstva zdavookhraneniya
Kazakhskoy SSR.
(KAZAKHSTAN--DISINFECTION AND DISINFECTANTS)

BAYMAKHANOV, M.T.; KARIMOV, B.A.; KUZNETSOV, V.P.

Study the ores of newly discovered deposits by making wider use of the possibilities offered by the Granitogorsk Experimental Ore Dressing Plant of the Kazakhstan Institute of Mineral Raw Materials. Razved. i okh.nedr 31 no.4:51-53 Ap '65. (MIRA 19:1)

1. Kazakhskiy nauchno-issledovatel'skiy institut mineral'nogo syr'ya Ministerstva geologii i okhrany neдр KazSSR.

BAYMAKANOVA, S.Sh., kand.med.nauk

Case of multiple abscess of the left temporal lobe of the brain
occurring without focal symptoms. Zhur.ush., nos.1 gorl.bol. 21
no.6:65-66 N-D '61. (MIRA 15:11)

1. Iz kafedry otorinolaringologii (zav. - dotsent B.I.Dunayvitser)
Semipalatinskogo meditsinskogo instituta.
(BRAIN—ABSCISS)

BALHAROV, A. Yu.

"The Reduction of Oxides and Chemical Compounds by Solid Carbon." Cand Tech Sci,
Leningrad Polytechnic Inst imeni M. I. Kalinin, Min Higher Education USSR,
Leningrad, 1955. (KL, No 12, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations
Defended at USSR Higher Educational Institutions (15)

BAYMAKOV, A.Yu.; VERNER, B.F.; LARIKOVA, M.G.; DMITRIYEVA, N.K.

Refining tin from admixtures by the method of zonal smelting.

TSvet. met. 29 no.8:51-58 Ag '56.

(MLRA 9:10)

(Tin--Metallurgy)

137-58-6-11981

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 113 (USSR)

AUTHORS: Baymakov, A.Yu., Verner, B.F., Kostelov, V.V.

TITLE: An Application of the Fuming Process (Metallotermiya v protsesse f'umingovaniya)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 9, pp 20-21

ABSTRACT Large quantities of ferrosilicon, a by-product of electro-smelting of Sn concentrates which contains 18-19% of Si, ~30% of Fe, and 3-5% of Sn, have accumulated in various tin-producing plants. In 1956 the Gipromnikel' Institute conducted shop experiments on processing of ferrosilicon by means of fuming of Sn slags containing 1.3-1.5% Sn, 0.5-0.8% Pb, and 2.5-3.5% Zn. After blowing, 0.07-0.08% of Sn remain in the slag, the extraction of Sn attaining 95%. Addition of ferrosilicon is advisable in amounts equivalent to 15% of slag by weight. Experiments dealing with blowing of the ferrosilicon only were also performed.

A.P.

Card 1/1

1. Slags--Processing
2. Iron-silicon alloys--Processing
3. Tin---Separation

BAYMAKOV, A. YU.

137-58-5-9412

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 87 (USSR)

AUTHOR: Baymakov, A. Yu.

TITLE: The Production of Certain Types of Materials from Metallurgical Intermediates by the Methods of Powder Metallurgy (Polucheniye nekotorykh vidov materialov iz promezhutochnykh produktov metallurgicheskikh protsessov metodom poroshkovoy metallurgii)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 17, pp 22-24

ABSTRACT: Laboratory tests have been run on the production of Fe-Ni alloys by sintering a mixture of powder oxides of $\text{Fe}_2\text{O}_3 + \text{NiO}$ at $1250-1300^\circ\text{C}$ with subsequent reduction in H_2 of the ground ferrite clinker at $700-750^\circ$. On an industrial scale, a mixture of NiO and Co hydroxide with Fe cake or scale may be used to produce Ni and Co ferrites. The most convenient method is the combined precipitation of hydrates from solutions containing Fe and Ni (or Co). Experiments were also conducted (a) on the preparation of material for Fe-Cu pseudo-alloys by reduction of Cu ferrite having been obtained by calcining Cu matte followed by sintering at 1000° , and (b) on the production of Cu-SiO₂ friction

Card 1/2

137-58-5-9412

The Production of Certain Types (cont.)

material from Cu silicates by reduction of slags from basic Cu refining in H_2 .

I. B.

1. Iron-nickel alloys--Production 2. Powder alloys--Sintering 3. Hydrates
--Precipitation 4. Slags--Processing

Card 2/2

137-58-6-11488

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 34 (USSR)

AUTHOR: Baymakov, A.Yu.

TITLE: ~~The Vapor Pressure~~ and the Composition of Aluminum Fluoride of the Lowest Valence (Uprugost' para i sostav ftorida alyumi-niya nizshey valentnosti)

PERIODICAL: Tr. Leningr. politekhn. in-ta, 1957, Nr 188, pp 156-161

ABSTRACT: The dynamic method (weight loss of a specimen consisting of a mixture of Al and AlF_3) is used to determine the vapor pressure of AlF resulting from the $\text{AlF}_3 + 2\text{Al} \rightleftharpoons 3\text{AlF}$ reaction at 1014-1076°C. Rapid volatilization followed by chilling of the gas phase of the AlF yielded a sublimate having equal gram-atomic content of F and Al, thereby confirming the accepted composition of the molecule of the lowest fluoride of aluminum - AlF.

L.P.

1. Aluminum fluorides--Properties 2. Aluminum fluorides--Vapor pressure

Card 1/1

SOV/136-59-3-9/21

AUTHORS: Baymakov, A.Yu. and Selivanov, I.M.

TITLE: An Experiment in Operating an Industrial Apparatus for Zone-melting Tin (Opyt puska i ekspluatatsii promyshlennoy ustanovki dlya zonnoy plavki olova)

PERIODICAL: Tsvetnyye Metally, 1959, Nr 3, pp 32 - 37 (USSR)

ABSTRACT: The results of laboratory experiments indicated that zone-melting of wide flat specimens was possible. In the laboratory zone-melting was carried out in quartz vessels 280 x 190 x 15 mm, using overhead Silit resistance heaters (Figure 1). At first, insulating bricks were placed all round the apparatus but this formed a wide molten zone in the centre (Figure 1a). This was overcome by removing insulation from under the centre of the vessel. For the experimental industrial apparatus a vessel 480 x 190 x 15 mm was at first used. The apparatus was redesigned with the help of A.S. Ivannikov, A.M. Yegorov and L.L. Meshkov of the Novosibirsk Lead Works. It consisted of a graphite vessel 1220 . 400 mm, taking 60 kg Sn. The bottom of the vessel was tilted (Figure 2). The vessel was in a case on a portable stand and asbestos cement plates were

Card1/4

SOV/136-59-3-9/21
An Experiment in Operating an Industrial Apparatus for Zone-melting
Tin

used as supports and insulators. The middle was open to the air. The speed of traverse of the vessel under the heaters was 16, 22, 33 or 44 mm/h and the return speed was 190 mm/min. The heaters were 900 mm long with a resistance of 3.5 Ω each. The distance between the heaters and the metal could be varied from 1 to 3 mm. The current was controlled by an autotransformer. Electrolytically refined tin was used. The zone width was not greater than 65 mm with the solid-metal interface vertical. There were six heaters, 190 mm between each. One cycle is shown in Figure 4. After moving 190 mm, the vessel returns to its original position so that the first zone is under the second heater, the second zone under the third heater and so on. It stays in this position for 15 minutes to allow the zone under the first heater to become molten before the next cycle begins. After the second cycle the zones have moved another 190 mm and after six cycles the first zone reaches the end. The maximum purification is obtained after 40 cycles.

Card2/4 The table gives the spectrographic analysis of the zone-

SOV/136-59-3-9/21

An Experiment in Operating an Industrial Apparatus for Zone-melting Tin

refined tin. No elements were detected. The yield of pure metal is 60% of the length but because of the sloping bottom it is 85% by volume. The production obtained is 145 kg/month using 40-45 kWh/kg tin. During zone-melting the tin is covered from the very beginning by a thin but strong oxide layer. This plays an important part as it absorbs heat easily and protects the tin from contamination and further oxidation. This enables industrial zone-melting of tin without a protective atmosphere. The purity of the tin obtained was measured by an electrical method by the Institut fizicheskikh problem AN SSSR (Institute of Physical Problems of the Ac.Sc., USSR) and found to be 99.9998% Sn. The described method is recommended for metals with melting points less than 600 - 650 °C which form a protective oxide film. Results indicate the possibility of refining bismuth, indium and zinc by similar methods.

Card3/4

SOV/136-59-3-9/21
An Experiment in Operating an Industrial Apparatus for Zone-
melting Tin

There are 4 figures, 1 table and 3 Soviet references.

ASSOCIATIONS: Institut Gipronikel' (Baymakov);
Novosibirskiy olovozavod (Novosibirsk Lead Works)
(Selivanov)

Card 4/4

BAYMAKOV, A.Yu.; PETROVA, Z.N.

Preparation of extra pure tellurium by the zonal refining method.
TSvet. met. 33 no.6:43-45 Je '60. (MIRA 14:4)
(Tellurium--Metallurgy)

OSIPOV, Ya.Kh.; TALOVIKOV, G.I.; SEREBRYANYI, Ya.L.; VEZO, A.I.; LINEV, V.D.;
SUDARKINA, V.A.; PALYSAYEV, M.P.; BAYMAKOV, A.Yu.

Mastering the procedure of nodulizing and roasting flotation
concentrates. TSvet. met. 36 no.9:42-46 S '63. (MIRA 16:10)

BAYMAKOV, N.Yu.; DENISENKO, I.N.; ZAKHAROV, I.P.

Control and testing TV unit for tuning black-and-white and color
receivers. Tekhnika i telev. 4 no.7:31-38 J1 '60. (MIRA 13:7)
(Television--Receivers and reception)

BAYMAKOV, Y. V.		PROCESSES AND PROPERTIES WHEN	
CO	Electrocrystallization of metals. 1. Structure of electrolytic deposits of copper. V. A. KISTYAKOVSKII, Y. V. BAYMAKOV AND I. V. KNOTOV. <i>Bull. acad. sci. union rep. soviet. chem. ar. phys.-math.</i> 1959, 777-80. -- A series of exper. was made to det. the change in structure of electrolytic deposits of Cu with the change of the phys. and chem. conditions of formation. The results given in tables and accompanied by photomicrographs tend to show that the crystals formed are bigger when more remote from the cathode; they grow in the direction perpendicular to the surface of the cathode. Some crystals cease to grow in the direction parallel to the surface of the cathode and thus degenerate. The tops of the old crystals often become centers of crystals for new crystals. This is in good agreement with Taylor's theory (C. A. 24, 3159). The surface of the cathode is covered with peaks on which electrons gather, causing a loss of charge of neighboring ions and a settling of neutral atoms. When these peaks come together forming the top of the crystal, the further growth of the crystal brings about their crossing and the beginning of a new crystal. A colloidal film or layer of oxide can prevent the growth of a crystal with the effect that atoms aggregating around an ion start a new crystal. The size of crystals decreases with increase in the concn. CuSO_4. The increase of concn. of H_2SO_4 up to 2 N causes an increase of the size of crystals; above 2.5 N there is a decrease. Increase in c. d. above 50 amp./sq. m. first increases the no. of crystals till a certain limit is reached, when increase in c. d. markedly diminishes the no. of crystals. Further increase in c. d. again increases the no. of crystals. In zones more remote from the cathode the increase of the c. d. first reduces the no. of crystals to a min; with further increase of the c. d. this no. increases. Very large current densities produce a deposit consisting of defined layers; (up) in the deposits tends to spread mainly parallel to the cathode.		
	J. D. THOMPSON		
4			
ASTM 51.4 METALLURGICAL LITERATURE CLASSIFICATION			

MATERIALS INDEX		PROCESS AND PROPERTIES INDEX	
BAIMAKOV, Y. V.		16	
BAIMAKOV, J. W. and B. W. Dneprov. "Electrochemical Industry." [In Russian.] pp. 137. Leningrad, 1932: Goskhimtechizdat. (Price 4.25 rubles.)			
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION			
FROM DIVISION		TO DIVISION	
100000 00		100000 00	
100000 00		100000 00	

101 AND 102 GROUP		PROCESSING AND PROPERTY INDEX		103 AND 104 GROUP	
<i>Anodic Dissolution of Copper-Tin Alloys.</i> J. W. Baimakov and P. H. Popov (<i>Zvestiya Metallurgii (The Non-Ferrous Metals)</i>, 1932, 7, 513-536; <i>Chem. Zvesti.</i>, 1934, 106, 1, 2344).—[In Russian.] Contrary to statements in the literature, tin can be dissolved practically completely from copper-tin alloys by anodic dissolution if the following conditions are observed: the anode should contain at least 10-15% tin, the electrolyte should contain 150-175 gm./litre of sulphuric acid with 37 gm./litre of copper, and the temperature should not exceed 20° C. The electrolyte should be protected from the air by a layer of machine oil, and it should be adequately circulated; the current density at the anode should be 120-150 amp./dm.² and at the cathode 70-80 amp./dm.². Addition of 0-6 c.c. of hydrochloric acid per litre assists in the production of smooth cathode deposits of copper; electrolysis can be continued until the copper content of the electrolyte falls to 10 gm./litre and the tin content rises to 50 gm./litre as stannous sulphate. The anodes should be well annealed and should be practically free from lead and zinc.—A. R. P.					
ASB-35A METALLURGICAL LITERATURE CLASSIFICATION					
10000 10100 10200 10300 10400 10500 10600 10700 10800 10900 11000 11100 11200 11300 11400 11500 11600 11700 11800 11900 12000 12100 12200 12300 12400 12500 12600 12700 12800 12900 13000 13100 13200 13300 13400 13500 13600 13700 13800 13900 14000 14100 14200 14300 14400 14500 14600 14700 14800 14900 15000 15100 15200 15300 15400 15500 15600 15700 15800 15900 16000 16100 16200 16300 16400 16500 16600 16700 16800 16900 17000 17100 17200 17300 17400 17500 17600 17700 17800 17900 18000 18100 18200 18300 18400 18500 18600 18700 18800 18900 19000 19100 19200 19300 19400 19500 19600 19700 19800 19900 20000					

137 AND 138 (2212)		PROCESSES AND PROPERTIES INDEX	
BRYMAKOV, U. V.		22	
Phenomena of the Transference of Ions and Charged Particles in Gaseous Media in an Electric Field. U. V. Balmakov (<i>Metallurg</i> (<i>Metallurgid</i>), 1966, (3), 90-100).—[In Russian.] The article gives the characteristics of disperse systems, their origin and properties; the principles of electro-precipitation, production indicators, fields of application (including copper casting), the charging of particles and their motion in electric fields, the mechanism of precipitation, and the design of apparatus.—N. A.			
A18-354 METALLURGICAL LITERATURE CLASSIFICATION		FROM SOURCE	
SOURCE SYMBOLOGY		COLLECTION	
100000 101 000 000		01111 000 000 111	
100000 101 000 000		01111 000 000 111	

PROCESSES AND PROPERTIES INDEX									
BAYMAKOV, Y. V.									
Protection of Magnesium Against Corrosion. J. V. Baymakov (Korrozia i Borba s Ney (Corrosion and the Fight Against It), 1936, 1, (5), 143-152). [In Russian.] A detailed review.—D. N. R.									
AND SLA DETAILING LITERATURE CLASSIFICATION									
FROM BOWLING									
CLASSIFIED ON ONLY 101									

BAYMAKOV, Yu. V.
m

Gold and Silver Plating of Large Metal Surfaces. *Yu. V. Baymakov (Metal-
lurgy (Metallurgy), 1958, (2), 2-6).—[In Russian.]* The methods used in gold
and silver plating the Soviet emblems on the towers of the Kremlin (total
surface area about 100 m.², with individual sections of 3 × 2 m.) are described
in detail.—N. A.

METALLURGICAL LITERATURE CLASSIFICATION
 621.772.01

PROCESSED AND PRINTED BY: [REDACTED]																									
БАЙМАКОВ, Ю. В.																									
Formation of aluminum carbide during electrolysis of aluminum in fused cryolite. Yu. V. Baymakov, V. P. Mashovets and I. G. Kul. <i>Leghe Metal.</i> 6, No. 1, 22 b (1937).---The e. m. f. of the $Al_2Na_2AlF_6 + 15\% Al_2O_3$ C cell is 0.82 v. at 1000° and 0.56 v. at 1100°. Al carbide is formed during electrolysis by an electrochem. reaction. H. W. Rathmann																									
ASD-11A METALLURGICAL LITERATURE CLASSIFICATION																									
[REDACTED]																									

PROCESSING AND PROPERTIES INDEX	
CA Chromium-plating baths containing fluoride ions. Yu. V. Halmakov, K. P. Batazhev and D. M. Telenkov. <i>Trans. Leningrad Ind. Inst.</i> 1938, No. 1, Sect. Met. No. 1, 27-35. —The baths contained 250 g./l. of CrO_3, 0.5-10 g./l. NaF and less than 1 g./l. of sulfate. Temps. were 15-15° and c. d. 1-5 amp./sq. dm. Best deposits were obtained in baths contg. 2.5 g./l. of NaF and at a c. d. of 1-5 amps./sq. dm., while in some cases bright deposits were obtained with c. d. of 0.5 amps./sq. dm. Deposits obtained at 18-30° were bright. Max. thickness of these deposits was 6-8 microns. The throwing power of the bath contg. CrO_3 250 g. and NaF 5 g./l. was detd. at 21-22° and at a c. d. of 3 amp./sq. dm. With increasing temp. the throwing power dropped and at 35° it was 10%. Pb anodes deteriorated rapidly; Pt and magnetite (treated in a Cr bath for 48 hrs.) anodes were good for long periods. B. Z. Kamich	4